

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		<b>Application Number</b>	09/726,649		
		<b>Filing Date</b>	November 28, 2000		
		<b>First Named Inventor</b>	Richard A. Lerner		
		<b>Group Art Unit</b>	1636		
		<b>Examiner Name</b>	James S. Ketter		
<b>Sheet</b>	1	<b>of</b>	2	<b>Attorney Docket Number</b>	213839-00023

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number - Kind Code <sup>2</sup> (if known)				
[Signature]	A1	US-4356270	10-26-1982	Itakura	—	
	A2	US-4642334	02-10-1987	Moore et al.	—	
	A3	US-4656134	04-07-1987	Ringold	—	
	A4	US-4683195	07-28-1987	Mullis et al.	—	
	A5	US-4683202	07-28-1987	Mullis	—	
	A6	US-4704692	11-03-1987	Landner et al.	—	
	A7	US-4711845	12-08-1987	Gelfand et al.	—	
	A8	US-4714681	12-22-1987	Reading	—	
	A9	US-4800159	01-24-1989	Mullis et al.	—	
	A10	US-4806471	02-21-1989	Molin et al.	—	
	A11	US-4816397	03-28-1989	Boss et al.	—	
	A12	US-4889818	12-08-1989	Gelfand et al.	—	
	A13	US-4937193	06-21-1990	Hinchliffe et al.	—	
	A14	US-4946786	08-07-1990	Tabor et al.	—	
	A15	US-4959317	09-25-1990	Sauer	—	
	A16	US-4965188	10-23-1990	Mullis et al.	—	
	A17	US-4978743	12-12-1990	Selbeck et al.	—	
	A18	US-4983728	01-08-1991	Herzog et al.	—	
	A19	US-5023171	06-11-1991	Ho et al.	—	
	A20	US-5229272	07-20-1993	Paul	—	
	A21	US-5126258	06-30-1992	Lerner	—	
	A22	US-6331415 B1	12-18-2001	Cabilly et al.	—	

RECEIVED  
FEB 14 2003  
TECH CENTER 1600/2500

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
[Signature]	B1	EP - 012523	04-06-1984		—	
	B2	EP - 0125023	11-14-1984	Cabilly et al.	—	
	B3	EP - 0171496	02-19-1986	Taniguchi et al.	—	
	B4	EP - 0173494	03-05-1986	Morrison et al.	—	
	B5	EP - 0200 362 A2	03-27-1986	Mullis et al.	—	
	B6	EP - 0201184	11-12-1986	Mullis	—	
	B7	EP - 0239400	09-30-1987	Winter	—	
	B8	EP - 0120694	07-21-1993	Boss et al.	—	
	B9	EP - 0368684	03-09-1994	Winter et al.	—	
	B10	EP - 0239400	08-03-1994	Winter	—	



<input checked="" type="checkbox"/>	B11	GB - 2137631	10-10-1984	Boss et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B12	JP - 61-104788	05-23-1986	Kudo et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B13	JP - 63-152984	06-25-1988	Hozumi et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B14	WO 88/01649	03-10-1988	Ladner et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B15	WO-A-8806630	09-07-1988	Ladner et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B16	WO 88/06630	09-07-1988	Ladner et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B17	WO 88/09344	12-09-1988	Huston et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B18	WO-A-8809344	12-01-1988	Huston et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B19	WO 89/00999	02-09-1989	Robinson et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B20	WO 89/01526	02-23-1989	Collins et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B21	WO-A-8901526	02-23-1989	Collins et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B22	WO 90/14424	11-29-1990	Huse	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B23	WO 90/14443	11-29-1990	Huse	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B24	WO 90/14430	11-29-1990	Lerner et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B25	WO 97/08320	03-06-1997	Knappik et al.	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	B26	EP - 0194276	08-11-1993	Neuberger et al.	<input checked="" type="checkbox"/>	

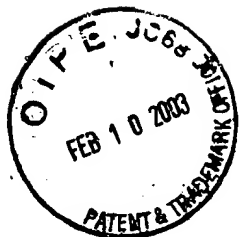
Examiner Signature	<i>J. KETTER</i>	Date Considered	5/1/07
-----------------------	------------------	--------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds codes of USPTO Patent Documents as [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden House Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED  
FEB 14 2003  
TECH CENTER 1600/2900



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

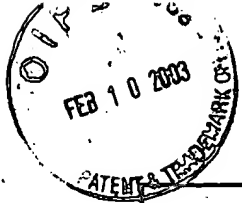
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Application Number</b>	09/726,649
		<b>Filing Date</b>	November 28, 2000
		<b>First Named Inventor</b>	Richard A. Lerner
		<b>Group Art Unit</b>	1636
		<b>Examiner Name</b>	James S. Ketter
Sheet 1 of 14		<b>Attorney Docket Number</b>	213839-00023

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T <sup>2</sup>
<i>ML</i>	C1	Short et al NAR 16: 7582. 1988.	
	C2	Jonda et al Science 241: 1188. 1988.	
	C3	Pollach et al Science 234: 1570. 1986.	
	C4	Tramantano et al Science 234: 1566. 1986.	
	C5	Short et al NAR 16(15): 7583, 1988.	
	C6	Lavich et al Bus RC 160(3): 1250, 1989.	
	C7	Shem et al Science 240: 1038, 1988.	
	C8	Sastry, L. et al., "Cloning of the immunological repertoire in Escherichia coli for generation of monoclonal catalytic antibodies: Construction of a heavy chain variable region-specific cDNA library", Proc. Natl. Acad. Sci., USA, vol. 86: Aug. 1989 pp. 5728-5732.	
	C9	Orlandi, R., et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction", Proc. Natl. Acad. Sci., USA, vol. 10: May 15, 1989, pp. 3833-3837.	
	C10	Larrick, J.W. et al., "Rapid cloning of rearranged Immunoglobulin genes from human hybridoma cells using mixed primers and the polymerase chain reaction", Biochem. & Bioph. Res. Comm., vol. 3:, May 15, 1989, pp. 1250-1256.	
	C11	Huse, W.D., "Generation of a large combinatorial library of the Immunoglobulin repertoire in Phage lambda", Science, vol. 246, Dec. 8, 1989, pp. 1275-1281.	
	C12	Aviv and Leder, "Purification of Biologically Active Globin Messenger RNA by Chromatography on Oligothymidylic acid-Cellulose", Proc. Nat. Acad. Sci. USA 69: 1408-1412 (1972).	
	C13	Berent, et al., "Comparison of Oligonucleotide and Long DNA Fragments as Probes in DNA and RNA Dot, Southern, Northern, Colony and Plaque Hybridizations", BioTechniques 3: 208-220 (1985).	
	C14	Better, et al., "Escherichia coli Secretion of an Active Chimeric Antibody Fragment", Science 240: 1041-1043 (1988).	
	C15	Bird, et al., "Single-Chain Antigen-Binding Proteins", Science 242:423-426 (1988).	

**RECEIVED**  
FEB 14 2003  
TECH CENTER 1600/2900

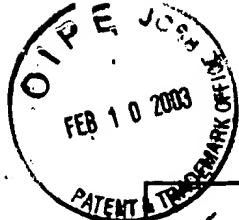


11	C16	Bolton, et al., "The Labelling of Proteins to High Specific Radioactivity by Conjugation to a .sup.125 I-Containing Acylating Agent", Biochem. 133: 529-539 (1973).	
	C17	Brodeur, and Riblet, "The immunoglobulin heavy chain variable . . . ", Eur. J. Immunol. 14: 922-930 (1984).	
	C18	Brown, et al., "Chemical Synthesis and Cloning of a Tyrosine tRNA Gene", Methods in Enzymol. 68: 109-151 (1979).	
	C19	Chang, et al., "Cloning and expression of recombinant, functional ricin B chain", PNAS 84: 5640-5644 (1987).	
	C20	Chomczynski, Sacchi, "Single Step Method of RNA Isolation by Acid Goanidinium Thiocyanate-Phenol-Chloroform Extraction", Anal. Biochem. 162: 156-159 (1987).	
	C21	Cohen, et al., "Nonchromosomal Antibiotic Resistance in Bacteria: Genetic Transformation of Escherichia coli by R-Factor DNA", Proc. Nat. Acad. Sci. USA 69: 2110-2114 (1972).	
	C22	Delaloye, et al., "Detection of Colorectal Carcinoma by Emission-computerized Tomography", Clin. Inv. 77: 301-311 (1986).	
	C23	Dildrop and Renate, "A new classification of mouse V.sub.H sequences", Immunology Today 5: 85-86 (1984).	
	C24	DiLella, et al., "Cloning range Segments of Genomic DNA Using Cosmid Vectors", Methods in Enzymol. 152: 199-212 (1987).	
	C25	Field, et al., "Purification of a RAS-Responsive Adenylyl Cyclase Complex from Saccharomyces cerevisiae by Use of an Epitope Addition Method", Molecular Cell Biology 8: 2159-2165 (1988).	
	C26	Frischauf, et al., "Construction and Characterization of a Genomic Library", Methods in Enzymol. 152: 190-199 (1987).	
	C27	Frischauf, et al., "Digestion of DNA: Size Fractionation", Methods in Enzymol. 152: 183-189 (1987).	
	C28	Garrett, et al., "Lethal Action of Bacteriophage .lambda. S Gene", J. Virology 44: 886-892 (1982).	
	C29	Gearheart, et al., "IgG antibodies to phosphorylcholine exhibit more diversity than their IgM counterparts" Nature 291: 29-34 (1981).	
	C30	Ginsberg, et al., "Immunochemical and Amino-terminal Sequence Comparison of Two Cytoadhesins Indicates They Contain Similar or Identical .beta. Subunits and Distinct .alpha. subunits", J. Biol. Chem. 262: 5437-5440 (1987).	
	C31	Gold, et al., "Translational Initiation in Prokaryotes", Ann. Rev. Microbiol. 35: 365-403 (1981).	
	C32	Graham, et al., "A New Technique for the Assay of Infectivity of Human Adenovirus 5 DNA", Virology 52: 456-467 (1973).	
	C33	Green, et al., "Immunogenic Structure of the Influenza Virus Hemagglutinin", Cell 28: 477-487 (1982).	
	C34	Guarente, et al., "Improved Methods for Maximizing Expression of a Cloned Gene: a Bacterium That Synthesizes Rabbit .beta.-Globin", Cell 20: 543-553 (1980).	

RECEIVED

FEB 14 2003

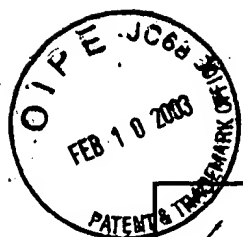
TECH CENTER 1600/2900



102	C35	Guarente, et al., "A technique for Expression Eukaryotic Genes in Bacteria", Science 209: 1428-1430 (1980).	
	C36	Gussow, et al. "Generating Binding Activities from Escherichia coli by Expression of a Repertoire of Immunoglobulin Variable Domains", Cold Spring Harbor Symposia on Quantitative Biology vol. LIV, Cold Spring Harbor Laboratory Press (1989).	
	C37	Edgar Haber, In vivo Diagnostic and Therapeutic Uses of Monoclonal Antibodies In Cardiology, Ann. Review Med. 37: 249-261 (1986).	
	C38	Herrmann, and Frischauf "Isolation of Genomic DNA", Methods in Enzymol 152: 180-183 (1987).	
	C39	Holmes, and Quigley, A Rapid Boiling Method for the Preparation of Bacterial Plasmids Anal. Biochem. 114: 193-197 (1981).	
	C40	Huse, et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda" Science 246: 1275-1281 (1988).	
	C41	Janda, et al., "Induction of an Antibody That Catalyzes the Hydrolysis of an Amide Bond" Science 241: 1188-1191 (1988).	
	C42	Janda, et al., "Catalytic Antibodies with Lipase Activity and R or S Substrate Selectivity", Science 244: 437-440 (1989).	
	C43	Jiang, Rapid detection of ras oncogenes in human tumors & applications to colon, Oncogene 4: 923-928 (1989).	
	C44	Joyce, and Inouye, "A novel technique for the rapid preparation of mutant RNA's", Nucleic Acid Research 17: 711-722 (1989).	
	C45	Krieg, and Melton, "Functional messenger RNA's are produced by SPG in vitro transcription of cloned cDNA's", Nucleic Acids Research 12: 7057-7070 (1984).	
	C46	Lai, et al. "Conserved organization of the human and murine T-cell receptor .beta. gene families". Nature 331: 543-546 (1988).	
	C47	Lei, et al., "Characterization of the Erwinia carotovora pelB Gene and Its Product Pectate Lyase", J. Bac. 169: 4379-4383 (1987).	
	C48	Larrick, et al., "Rapid Cloning of Rearranged Immunoglobulin Genes From Human Hybridoma Cells Using Mixed Primers and The Polymerase Chain Reaction", Biochem. Biophys. Research Comm. 3: 1250-1256 (1989).	
	C49	Li, et al., Alteration of the amino terminus of the mature sequence of a protein can severely affect protein export in Escherichia coli, Proc. Natl. Acad. Sci. USA 85: 7685-7689 (1988).	
	C50	Loh, et al., "Polymerase Chain Reaction with Single-Sided Specificity: Analysis of T Cell Receptor .delta. Chain", Science 243: 217-220 (1989).	
	C51	Martin, and Castro, "Base pairing involving deoxyinosine: implications for probe design", Nucleic Acids Research 13: 8927-8938 (1985).	
	C52	Marx, Jean, "Learning How To Bottle the Immune System" Science 246: 1250-1251 (1989).	
	C53	McLeod, et al., "Identification of the Crossover Site during FLP-Mediated Recombination in the Saccharomyces cerevisiae Plasmid 2.mu.m Circle", Mol. Cell. Biol. 6: 3357-3367 (1985).	



C54	Morrison, Sherie L., "Transfectomas Provide Novel Chimeric Antibodies", Science 229: 1202-1207 (1985).
C55	Mouva, et al., "Amino Acid Sequence of the Signal Peptide of ompA Protein, a Major Outer Membrane Protein of Escherichia coli", J. Biol. Chem. 255: 27-29 (1980).
C56	Mullinax, et al., "Identification of human antibody fragment clones specific for tetanus toxoid in a bacteriophage .lambda. immunoexpression library", Proc. Natl. Acad. Sci. USA 87: 8095-8099 (1990).
C57	Narang, et al., "Improved Phosphotriester Method for the Synthesis of Gene Fragments", Methods in Enzymol. 68: 90-98 (1979).
C58	Neuberger, et al., "Recombinant antibodies possessing novel effector functions" Nature 312: 604-608 (1984).
C59	Niman, et al., "Generation of protein-reactive antibodies by short peptides is an event of high frequency: Implications for the structural basis of immune recognition" Proc. Natl. Acad. Sci. USA 80: 4949-4953 (1983).
C60	Ohtsuka, et al., "An Alternative Approach to Deoxyoligonucleotides as Hybridization Probes by Insertion of Deoxyinosine at Ambiguous Codon Positions", J. Biol. Chem. 360: 2605-2608 (1985).
C61	Orlandi, et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction" Proc. Natl Acad.Sci. USA 86: 3833-3837 (1989).
C62	Pollack, et al., "Selective Chemical Catalysis By An Antibody" Science 234: 1570-1573 (1986).
C63	Raab, et al., Dominance in Lambda S Mutations and Evidence for Translational Control J. Mol. Biol. 199: 95-105 (1988).
C64	Reader, et al., "Lysis Defective Mutants of Bacteriophage Lambda: Genetics and Physiology of S Cistron Mutants", Virology 43: 607-622 (1971).
C65	Roberts, et al. "A general method for maximizing the expression of a cloned gene" Proc. Natl. Acad. Sci. USA 76: 760-764 (1979).
C66	Roberts, et al. "Synthesis of simian virus 40 t antigen in Escherichia coli", Proc. Natl. Acad. Sci. USA 76: 5596-5600 (1979).
C67	Ruoslahti and Pierschbacher, "New Perspectives in Cell Adhesion: RGD and Integrins" Science 238: 491-496 (1987).
C68	Saiki, et al., "Enzymatic Amplification of .beta.-Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sick Cell Anemia", Science 230: 1350-1354 (1985).
C69	Saiki, et al., Primer-directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase Science 239: 487-491 (1988).
C70	Sanger, et al., "DNA sequencing with chain-terminating inhibitors", Proc. Natl. Acad. Sci. USA 74: 5463-5467 (1977).
C71	Sastry, et al., "Cloning of the Immunological Repertoire in Escherichia coli for Generation of Monoclonal Catalytic Antibodies: Construction of a Heavy Chain Variable Region-specific cDNA Library" Proc. Natl. Acad. Sci. USA 86: 5728-5732 (1989).

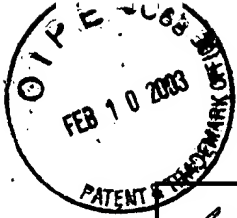


C72	Senecoff, et al. "The FLP recombinase of the yeast 2- $\mu$ m plasmid: Characterization of its recombination site", Proc. Natl. Acad. Sci. USA 82: 7270-7274 (1985).
C73	Shine, et al., "Determinant of cistron specificity in bacterial ribosomes", Nature 254: 34-38 (1975).
C74	Short, et al., "ZAP: A Bacteriophage $\lambda$ expression Vector With in vivo Excision Properties", Nucleic Acids Research 16: 7583-7597 (1988).
C75	Skerra, et al., "Assembly of A Functional Immunoglobulin F.sub.v Fragment In Escherichia coli" Science 240: 1038-1040 (1988).
C76	Sommer and Tautz, "Minimal homology requirements for PCR primers", Nucl. Acids Res. 17: 6749 (1989).
C77	Iverson, Sorge, et al., "A Combinatorial System for Cloning and Expressing the Catalytic Antibody Repertoire in Escherichia coli", Cold Spring Harbor Laboratory Press vol. LIV pp. 273-281 (1989).
C78	Sorge, et al., "Amphotropic Retrovirus Vector Systems for Human Cell Gene Transfer", Mol. Cell Biol. 4: 1730-1737 (1984).
C79	Southern E.M., "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis", J. Mol. Biol. 98: 503-517 (1975).
C80	Studier, and Moffatt, "Use of Bacteriophage T7 RNA Polymerase to Direct Selective High-level Expression of Cloned Genes", J. Mol. Biol. 189: 113-130 (1986).
C81	Suzuki, et al., "cDNA and amino acid sequences of the cell adhesion protein receptor recognizing vitronectin reveal a transmembrane domain and homologies with other adhesion protein receptors", Proc. Natl. Acad. Sci. USA 83: 8614-8618 (1986).
C82	Takahashi, et al., "Molecular cloning of the human cholecystokinin gene by use of a synthetic probe containing deoxyinosine", Proc. Natl. Acad. Sci. USA 82: 1931-1935 (1985).
C83	Tramontano, et al., "Catalytic Antibodies", Science 234: 1566-1569 (1986).
C84	Tuniguchi, and Weissmann, "Site-directed Mutations in the Initiator Region of the Bacteriophage Q. $\beta$ Coat Cistron and Their Effect on Ribosome Binding", J. Mol. Biol. 118: 533-565 (1978).
C85	Vitetta, et al., "Immunotoxins: A New Approach to Cancer Therapy", Science 219: 644-650 (1983).
C86	Ward, et al., "Binding Activities of A Repertoire of Single Immunoglobulin Variable Domains Secreted From Escherichia coli", Nature 341: 544-546 (1989).
C87	Whal, et al., "Improved Radio imaging and tumor Localization with monoclonal F(ab).sub.2 ", J. Nucl. Med. 24: 316 (1983).
C88	Wigler, et al., "DNA-mediated transfer of the adenine phosphoribosyltransferase locus into mammalian cells", Proc. Natl. Acad. Sci. USA 76: 1373-1376 (1979).
C89	Winter, and Milstein, "Man-made antibodies", Nature 349: 293-299 (1991).

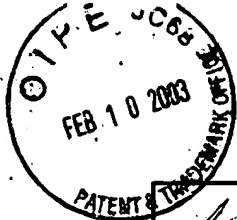


C90	Zalcberg, John R. "Tumor localization using radiolabeled monoclonal antibodies", Am.J. Clin. Oncol. 8: 481-489 (1985).	
C91	Akowitz and Manuelidis, "A novel cDNA/PCR strategy for efficient cloning of small amounts of undefined RNA", Gene 81: 295-306 (1989).	
C92	Belyavsky, et al., "PCR-based cDNA library construction: general cDNA libraries at the level of a few cells", Nucleic Acids Research 17: 2929-2932 (1989).	
C93	Larrick, et al., "Generation of Specific Human Monoclonal Antibodies By In Vitro Expansion of Human B Cells: A Novel recombinant DNA Approach", In Vitro Immunization in Hybridoma Technology, p. 231-246 (1988).	
C94	Moore, Gordon, "Genetically Engineered Antibodies", clin. Chem. 35: 1849-1853 (1989).	
C95	Ohara, et al., "One-sided polymerase chain reaction: The amplification of cDNA", Proc. Natl. Acad. Sci. USA 86: 5673-5677 (1989).	
C96	Rathburn, et al., "Making antigen-receptor genes", Nature 342: 863-864 (1989).	
C97	Biotechnology Newswatch, "Antibody genes cloned in bacteria, bypassing tumor cells animals", p. 4 (Jan. 15, 1990).	
C98	Ho, et al., "Site-directed mutagenesis by overlap extension using the polymerase chain reaction", Gene 77: 51-59 (1989).	
C99	Barbas, et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site", Proc. Natl. Acad. Sci. USA 88: 7978-7982 (1991).	
C100	Chang, et al., "Expression of Antibody Fab Domains on Bacteriophage Surfaces", J. Immun. 147: 3610-3614 (1991).	
C101	Clackson, et al., "Making antibody fragments using phage display libraries", Nature 352: 624-628 (1991).	
C102	Hoogenboom, et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains", Nucleic Acids Research 19: 4133-4137 (1991).	
C103	Kang, et al., "Linkage of recognition and replication functions by assembling combinatorial antibody Fab libraries along phage surfaces", Proc. Natl. Acad. Sci. USA 88: 4363-4366 (1991).	
C104	McCafferty, et al., "Phage antibodies: filamentous phage displaying antibody variable domains", Nature 348: 552-555 (1990).	
C105	Huse, Antibody Engineering: A Practical Guide "Combinatorial Antibody Expression Libraries in Filamentous Phage" p. 103-120.	
C106	Weisberg and Landy "Site-specific Recombination of Phage Lambda", Lambda II, Cold Spring Harbor Laboratory Press pp. 211-217 (1983).	
C107	Kabat, et al., Sequences of Proteins of Immunological Interest 4th Edition U.S. Dept. of Health and Human Services pp. 494-525 (1987).	
C108	Amit, A., et al, "Three-Dimensional Structure of an Antigen-Antibody Complex at 2.8 A Resolution", Science 233:747-753 (1986).	
C109	Amzel, L., et al, "Three-Dimensional Structure of Immunoglobulins", Ann. Rev. Biochem. 48:961-97 (1979).	

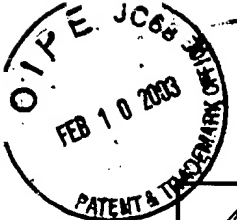




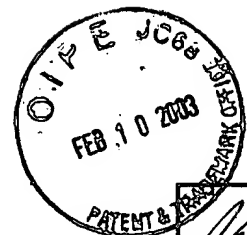
C110	Baldwin, E., et al, "Generation of a Catalytic Antibody by Site-Directed Mutagenesis", Science 245:1104-1107 (1989).	
C111	Better, M., et al, "Escherichia coli Secretion of an Active Chimeric Antibody Fragment", Science 240:1041-1043 (1988).	
C112	Bosslet, et al, "Immunohistochemical Localization and Molecular Characteristics of Three Monoclonal Antibody-Defined Epitopes Detectable on Carcinoembryonic Antigen (CEA)", J. Cancer 36:75-84 (1985).	
C113	Bosslet, K., et al, "Quantitative considerations supporting the irrelevance of circulating serum CEA for the immunoscintigraphic visualization of CEA expressing carcinomas", Eur. J. Nuc. Med. 14:523-528 (1988).	
C114	Bosslet, K., et al, "A monoclonal antibody with binding and inhibiting activity towards human pancreatic carcinoma cells," Cancer Immunol Immunother. 23:185-191 (1986).	
C115	Boulianne, G., et al, "Production of Functional Chimaeric Mouse/Human Antibody", Nature 312:643-646 (1984).	
C116	Bremer, et al, "Characterization of a Glycosphingolipid Antigen Defined by the Monoclonal Antibody MBrl Expressed in Normal and Neoplastic Epithelial Cells of Human Mammary Gland," J. Biol. Chem. 259 (23):14773-14777 (1984).	
C117	Bruggemann, M., et al, "Comparison of the Effector Functions of Human Immunoglobulins Using Matched Set of Chimeric Antibodies," J. Exp. Med. 166:1351-1361 (1987).	
C118	Bruggemann, M., et al, "Construction, Function and Immunogenicity of Recombinant Monoclonal Antibodies", Behring Inst. Mitt. 87:21-24 (1990).	
C119	Carter, P., et al, "Improved oligonucleotide site-directed mutagenesis using MI 3 vectors", Nuc. Acids Res. 13(12):4431-4443 (1985).	
C120	Chaidaroglou, A., et al, "Function of Arginine-166 in the Active Site of Escherichia coli Alkaline Phosphatase", Biochem. 27:8338-8343 (1988).	
C121	Chiang, Y., et al, "Direct cDNA Cloning of the Rearranged Immunoglobulin Variable Region", Biotechniques 7(4):360-366 (1989).	
C122	Cioe, L., et al, "Cloning and Nucleotide Sequence of a Mouse Erythrocyte B-Spectrin cDNA", Blood 70(4):915-920 (1987).	
C123	Cioe, L., et al, "Detection and Characterization of a Mouse a-Spectrin cDNA Clone by Its Expression in Escherichia coli", Proc. Natl. Acad. Sci. USA 82: 1367-1371 (1985).	
C124	Colman, P., et al, "Three-dimensional structure of a complex of antibody with influenza virus neuraminidase", Nature 326:358-363 (1987).	
C125	Dagert, M., et al, "Prolonged Incubation Calcium Chloride Improves the Competence of Escherichia coli Cells", Gene, 6:23-28 (1979).	
C126	Dolby, T., et al, "Cloning and Partial Nucleotide Sequence of Human Immunoglobulin p-chain cDNA from B cells and Mouse-Human Hybridomas", Proc. Natl. Acad. Sci. USA 77(10):6027-6031 (1980).	
C127	Edmundson, A., et al, "Rotational Allomerism and Divergent Evolution of Domains in Immunoglobulin Light Chains", Biochemistry 14(18):3953-3961 (1975).	



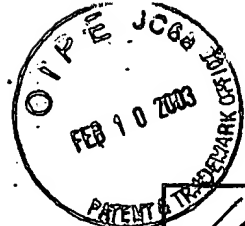
C128	Fields, S., et al, "Novel genetic system to detect protein-protein interactions", Nature 340:245-246 (1989).	
C129	Galfre, G., et al, "Preparation of Monoclonal Antibodies: Strategies and Procedures", Meth.Enzym. 73:3-47 (1981).	
C130	Glockshuber, R., et al, "The Disulfide Bonds in Antibody Variable Domains: Effects on Stability, Folding in Vitro, and Functional Expression in Escherichia coli", Biochemistry 31 (5):1270-1279 (1992).	
C131	Green, N., et al, "Immunogenic Structure of the Influenza Virus Hemagglutinin", Cell 28:477-487 (1982).	
C132	Griffiths, G., et al, "The Analysis of Structural Diversity in the Antibody Response", Hybridoma Technology in the Biosciences and Medicine 103-115 Ed. T.A. Springer, Plenum Press (1985).	
C133	Grodberg, J., et al, "ompT Encodes the Escherichia coli Outer Membrane Protease that Cleaves T7 RNA Polymerase during Purification", J. Bacteriol 170(3):1245-1253 (1988).	
C134	Gronenborn, B., "Overproduction of Phage Lambda Repressor under Control of the lac Promoter of Escherichia coli," Mol Gen. Genet. 148:243-250 (1976).	
C135	Gubler, U., et al, "A simple and very efficient method for generating cDNA libraries", Gene 25:263-269 (1983).	
C136	Hanahan, D., "Studies on Transformation of Escherichia coli with Plasmids", J. Mol Biol 166:557-580 (1983).	
C137	Herrmann, B., et al, Isolation of Genomic DNA, Methods in Enzymol 152:180-197 (1987).	
C138	Holmes, D., et al, "A Rapid Boiling Method for the Preparation of Bacterial Plasmids", Analytical Biochem. 114:193-197 (1981).	
C139	Honjo, T., Immunoglobulin Genes, "Ann. Rev. Immuno", 1:499-528 (1983).	
C140	Hunkapiller, T., et al, "The Growing Immunoglobulin Gene Superfamily", Nature 323: 15-16 (1986).	
C141	Huston, et al, "Protein engineering of antibody binding sites: recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci USA 85:5879-5883 (1988).	
C142	Inbar, D., et al, "Localization of Antibody-Combining Sites within the Variable Portions of Heavy and Light Chains", Proc. Natl. Acad. Sci USA 69(9):2659-2662 (1972).	
C143	Janda, et al, Induction of an Antibody that Catalyzes the Hydrolysis of an Amide Bond, Science 241:1188-1191 (1988).	
C144	Janda, et al, "Catalytic Antibodies with Lipase Activity and R or S Substrate Selectivity", Science 244:437-440 (1989).	
C145	Jaton, et al, "Recovery of Antibody Activity upon Reoxidation of Completely Reduced Polyalaanyl Chain and Its Fd Fragment Derived from Anti-2,4-dinitrophenyl Antibody", Biochemistry 7(12):4185-4195 (1968).	
C146	Jones, P., et al, "Replacing the complementarity-determining regions in a human antibody with those from a mouse", Nature 321:522-525 (1986).	
C147	Joyce, G., et al, "A novel technique for the rapid preparation of mutant RNA's", Nucleic Acids Research 17(2):711-722 (1989).	



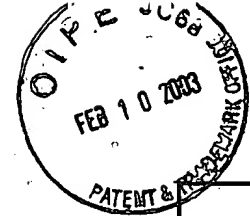
	C148	Kaczmarek, L., et al, "Cell-Cycle-Dependent Expression of Human Ornithine Decarboxylase", J. Cellular Physiol 132:545-551 (1987).	
	C149	Kearney, J., et al, "A New Mouse Myeloma Cell Line That Has Lost Immunoglobulin Expression but Permits the Construction of Antibody-Secreting Hybrid Cell Lines", J. Immunol 123(4):I 5481550 (1979).	
	C150	Kokubu, F., et al, "Complete structure and organization of immunoglobulin heavy chain constant region genes in a phylogenetically primitive vertebrate", EMBO J. 7(7):1979-1988 (1988).	
	C151	Kramer, B., et al, "Different Base/Base Mismatches Are Corrected with Different Efficiencies by the Methyl-Directed DNA Mismatch-Repair System of E. coli", Cell 38:879-887 (1984).	
	C152	Krieg, P., et al, "Functional messenger RNA's are produced by SPG in vitro transcription of cloned cDNA's", Nucleic Acids Research 12(18):7057-7070 (1984).	
	C153	Laemmli, U., "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4", Nature 227:680-685 (1970).	
	C154	Lai, E., et al, Conserved organization of the human and murine T-cell receptor B-gene families, Nature 331:543-546 (1988).	
	C155	Land, H., et al, "5'-Terminal sequences of eucaryotic mRNA can be cloned with high efficiency," Nucleic Acids Research 9(10):2251-2267 (1981).	
	C156	Larrick, et al, "Rapid Cloning of Rearranged Immunoglobulin Genes from Human Hybridoma Cells Using Mixed Primers and the Polymerase Chain Reaction", Biochem,Biophys.Res.Comm. 60(3):1250-1256 (1989).	
	C157	Larrick, J., et al, Progress in Biotechnology, In Vitro Immunization in Hybridome Technology Elsevier Science Publishers, Amsterdam 231-246 (1988).	
	C158	Lee, C., et al, "Generation of CDNA Probes Directed by Amino Acid Sequence: Cloning of Urate Oxidase", Science 239:1288-1291 (1988).	
	C159	Lei, S., et al, "Characterization of the Erwinia carotovora pelb Gene and Its Product Pectate Lyase", J. Bac 169(9):4379-4383 (1987).	
	C160	Mack, D., et al, "A Sensitive Method for the Identification of Uncharacterized Viruses Related to Known Virus Groups: Hepadnavirus Model System", Proc. Natl. Acad. Sci. USA 85:6977-6981 (1988).	
	C161	Maniatis, et al, Molecular Cloning: A Laboratory Manual Cold Spring Harbor Laboratory (1982).	
	C162	Mariuzza, R., et al, "Preliminary Crystallographic Study of the Complex Between the Fab Fragment of a Monoclonal Anti-lysozyme Antibody and its Antigen", J. Mol Biol 170:1055-1058 (1983).	
	C163	Martin, F., et al, Base pairing involving deoxyinosine; implications for probe design, Nuc Acids Research 13(24):8927-8938 (1985).	
	C164	McCormack, W., et al, "Comparison of Latent and Nominal Rabbit Ig V <sub>H</sub> Allotype CDNA Sequences", Journal of Immunology 141(6):2063-2071 (1988).	
	C165	Menard, S., et al, "Generation of Monoclonal Antibodies reacting with Normal and Cancer Cells of Human Breast", Cancer Res., 43:1295-1300 (1983).	



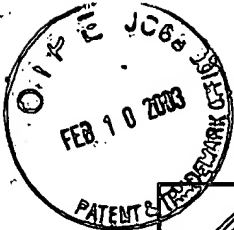
	C166	Miller, R., et al, "Monoclonal Antibody Therapeutic Trials in Seven Patients with T-Cell Lymphoma", Blood 62(5):988-995 (1983).	
	C167	Morrison, S., et al., "Chimeric Human Antibody Molecules: Mouse Antigen-Binding Domains with Human Constant Region Domains", Proc. Natl. Acad. Sci. USA 81:6851-6855 (1984).	
	C168	Morrison, S., "Transfectomas Provide Novel Chimeric Antibodies", Science 229:1202-1207 (1985).	
	C169	Narang, S., et al., "Improved Phosphotriester Method for the Synthesis of Gene Fragments", Meth. Enzymol 68:90-98 (1979).	
	C170	Neuberger, M., et al, "A Hapten-Specific Chimaeric IgE Antibody with Human Physiological Effector Function", Nature 314:268-270 (1985).	
	C171	Neuberger, M., et al, "Expression and regulation of immunoglobulin heavy chain gene transfected into lymphoid cells", EMBO J., 2:1373-1378.	
	C172	Neuberger, M., et al., "Protein Engineering of Antibody Molecules", Protein Engineering Ch 19:31-317 Academy Press (1986).	
	C173	Neuberger, M., et al, "The expression of immunoglobulin genes", Immunology Today 9(9):278-281 (1988).	
	C174	Neuberger, M., et al, "Antibody Engineering", Proc. 8th Invit Biotech. Symp. Soc. Francaise de Microbial 792-799 (1988).	
	C175	Neuberger, M., et al "Making novel antibodies by expressing transfected immunoglobulin genes", Trends in Biochemical Sciences 10(9):347-349 (1985).	
	C176	Neuberger, M., et al, "Construction of novel antibodies by use of DNA transfection: design of plasmid vectors," Phi Trans. R.S. Lond. A317:425-432 (1986).	
	C177	Ochi, A., et al "Transfer of a cloned immunoglobulin light-chain gene to mutant hybridoma cells restores specific antibody production", Nature 302:340-342 (1983).	
	C178	Oi, V., et al., "Immunoglobulin gene expression in transformed lymphoid cells", Proc. Natl. Acad. Sci. USA 80:825-829 (1983).	
	C179	Padian, E., et al, "Structure of an antibody-antigen complex: Crystal structure of the HyHEL-1 0 Fab-lysozyme complex", Proc. Natl. Acad. Sci USA 86:5938-5942 (1989).	
	C180	Porter, R., et al, "Subunits of Immunoglobulins and their Relationship to Antibody Specificity", J. Cellular Physiol 67(3) Supp. 1:51 (1966).	
	C181	Potter, H., et al, "Enhancer-dependent expression of human K immunoglobulin genes introduced into mouse pre-B lymphocytes by electroporation" Proc. Natl. Acad. Sci USA 81:7161-7165 (1984).	
	C182	Proba, K., et al., "A Natural Antibody Missing a Cysteine in VH: Consequences for Thermodynamic Stability and Folding", J. Mol Biol 265:161-172 (1997).	
	C183	Proba, K., et al, "Antibody scfv Fragments without Disulfide Bonds Made by Molecular Evolution", J. Mol. Biol. 275:245-253 (1998).	
	C184	Riechmann, L., et al., "Reshaping human antibodies for therapy", Nature 332:323-327 (1988).	



C185	Rockey, J., "Equine Antihapten Antibody", J. Exp. Med., 125:249-275 (1967).	
C186	Rossman, M., et al., "Structure of a human common cold virus and functional relationship to other picornaviruses", Nature 317:145-153 (1985)	
C187	Roth, M., et al., "Selection of Variable-Joining Region Combinations in the Chain of the T Cell Receptor", Science 241:1354:1358 (1985).	
C188	Saiki, R., et al., "Enzymatic Amplification of B-Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sick Cell Anemia", Science 230:1350-1354 (1985).	
C189	Satow, Y., et al., "Phosphocholine Binding Immunoglobulin Fab McPC603, An X-ray Diffraction Study at 2-7 A.", J. Mol. Biol. 190:593-604 (1986).	
C190	Scharf, S., et al., "Direct Cloning and Sequence Analysis of Enzymatically Amplified Genomic Sequences", Science 233:1076-1078 (1986).	
C191	Schwager, J., et al., "Amino acid sequence of heavy chain from Xenopus laevis IgM deduced from cDNA sequence: Implications for evaluation of immunoglobulin domains", Proc. Natl. Acad. Sci. USA 85:2245-2249 (1988).	
C192	Sharon, J., et al., "Expression of a VHCK Chimaeric Protein in Mouse Myeloma Cells", Nature 309:364-367 (1984).	
C193	Sheriff, S., et al., "Three-dimensional structure of an antibody-antigen complex", Proc. Natl. Acad. Sci. USA 84:8075-8079 (1987).	
C194	Shine, J., et al., "Determinant of cistron specificity in bacterial ribosomes", Nature 254:34-38 (1975).	
C195	Short, J., et al., "ZAP: A Bacteriophage lambda expression Vector with in vivo Excision Properties", Nucleic Acids Research 16(15):7583-7600 (1988).	
C196	Southern, P., et al., "Transformation of Mammalian Cells to Antibiotic Resistance with a Bacterial Gene Under Control of the SV40 Early Region Promoter", J. Mol. Appl. Genet. 1:327-341 (1982).	
C197	Staden, R., "The current status and portability of our sequence handling software", Nucleic Acids Res. 14(I):217-231 (1986).	
C198	Stevenson, G., "The Binding of Haptens by the Polypeptide Chains of Rabbit Antibody Molecules", Biochem. J., 133:827-836 (1973).	
C199	Takeda, S., et al., "Construction of Chimaeric Processed Immunoglobulin Genes Containing Mouse Variable and Human Constant Region Sequences", Nature 314:452-454 (1985).	
C200	Taniguchi, T., et al., "Site-directed Mutations in the Initiator Region of the Bacteriophage Beta Coat Cistron and Their Effect on Ribosome Binding", J. Mol. Biol. 118:533-565 (1978).	
C201	Tonegawa, S., "Somatic Generation of Antibody Diversity", Nature 302:575-581 (1983).	
C202	Verhoeven, M., et al., "Reshaping human antibodies: grafting an antilysozyme activity", Science 239:1534-1536 (1988).	
C203	Wigler, M., et al., "DNA-mediated transfer of the adenine phosphoribosyltransferase locus into mammalian cells", Proc. Natl. Acad. Sci USA 76(3):1373-1376 (1979).	



14	C204	Winter, G., "The use of synthetic oligodeoxynucleotide primers in cloning and sequencing segment 8 of influenza virus (A/PR/8/34)", Nucl. Acids Res. 9:237-245 (1981).	
	C205	Winter, G., "Restructuring Enzymes and Antibodies", Investigation and Exploitation of Antibody Combining Sites, pp. 129-140, Reid et al., eds., Plenum Publishing Corporation (1985).	
	C206	Yanisch-Perron, C., et al., "Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors", Gene 33:103-119 (1985).	
	C207	Yon, J., et al., "Precise gene fusion by PCR", Nucl. Acids Res. 17(12):4895 (1989).	
	C208	Zaloberg, J., "Tumor localization using radiolabeled monoclonal antibodies", Am. J. Clin. Oncol. 8:481-489 (1985).	
	C209	Zoller, M., et al., "Oligonucleotide-directed mutagenesis using M13-derived vectors: an efficient and general procedure for the production of point mutations in any fragment of DNA", Nucl. Acids Res. 10(20):6457-6500 (1982).	
	C210	Chothia et al., "Conformations of immunoglobulin hypervariable regions", Nature 342:877-883 (1989).	
	C211	Chothia et al., "The Predicted Structure of Immunoglobulin D1.3 and Its Comparison with the Crystal Structure", Science 233:756-758 (1986).	
	C212	Chothia et al., "Canonical Structures for the Hypervariable Regions of Immunoglobulins", J. Mol. Biol., 196:901-917 (1987).	
	C213	Larrick, J., "Rapid Cloning of Rearranged Immunoglobulin Genes from Human Hybridoma Cells Using Mixed Primers and the Polymerase Chain Reaction", Biochem. Biophys. Res. Comm. 160(3):1250-1256 (1988).	
	C214	Interlocutory Decision European Patent No. 368,684; Sep. 3, 1994 EP in Opposition Proceedings (Art. 102(3) and 106(3) EPC May 29, 2000 from Oral Proceedings held Oct. 14, 1999 in file of EP No. 368,684.	
	C215	Roth et al., "Selection of Variable-Joining Region Combinations in the Chain of the T Cell Receptor", Science 241:1354-1358 (1988).	
	C216	Ruoslahti et al., New Perspectives in Cell Adhesion.	
	C217	Saiki et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase", Science 239:487-491 (1988).	
	C218	Sanger et al., "DNA sequencing with chain-terminating inhibitors", PNAS (USA) 74(12):5463-5467 (1977).	
	C219	Sastry et al., PNAS (USA) 86:5728-5732 (1989).	
	C220	Verhoeven et al., "Engineering of Antibodies", Bioassays 8(2):74-78 (1988).	
	C221	Cohen et al., "Nonchromosomal Antibiotic resistance in Bacteria: Genetic Transformation of Escherichia coli by R-Factor DNA", PNAS (USA) 69(8):2110-2114 (1972).	
	C222	Gearhart et al., "IgG antibodies to phosphorylcholine exhibit more diversity than their IgM counterparts," Nature 391:29-34 (1981).	
	C223	Ginsberg et al., Virology 52:456-467 (1973).	
	C224	Kabat et al. "Sequences of Proteins of Immunological Interest", 4th ed. U.S. Health and Human Services pp. 494-525 (1987).	



	C225	Neuberger et al., "Antibody Engineering", Proc. 8th Invit. Biotech Symposium. Soc. Francoise de Microbial. 792-799 (1988).	
	C226	Skerra et al., "Assembly of a functional Immunoglobulin Fv Fragment in Escherichia coli", Science 240:1038-1041 (1988).	
	C227	Sorge et al., "Amphotropic Retrovirus Vector System for Human Cell Gene Transfer", Mol. Cell. Biol. 4(9):1730-1737 (1984).	
	C228	Studier et al., "Use of Bacteriophage T7 RNA Polymerase to direct selective high-level expression of cloned genes", J. Mol. Biol. 189:113-130 (1986).	
	C229	Suzuki et al., PNAS (USA) 83:8614-8618 (1986).	
	C230	Tramontano et al., "Catalytic Antibodies", Science 234:1566-1569 (1986).	
	C231	Bird et al., "Single-Chain Antigen-Binding Proteins", Science 242:423-426 (1988).	
	C232	Appeal Brief of Opposition to EP-B-0368 684, filed by MorphoSys and submitted to the Technical Appeal Board of European patent Office on Oct. 9, 2000.	
	C233	Chua et al., "Germ-Line Affinity and Germ-Line Variable-Region Genes in the B Cell Response", J. Immunol. 138(4):1281-1288 (1987).	
	C234	Kimura et al., J. Immunol. 140(4):1212-1217 (1988).	
	C235	Roitt et al., "The Generation of Antibody Diversity", Immunology, Gower Medical Publishing pp. 9.1-9.11 (1985).	
	C236	Kabat et al., "Antibody Complementarity and Antibody Structure", J. Immunol., 141 (7-Suppl.):S25-S36.	
	C237	Fiscauf, "Digestion of DNA: Size Fractionation", Meth. Enzymol. 152:183-189 (1987).	
	C238	Larrick et al., In Vitro Immunization in Hybridoma Technology, C.A.K. Borrebaeck, ed., Elsevier Science Publishers, Amsterdam, pp. 231-246 (1988).	
	C239	Movva et al., "Amino Acid Sequence of the Signal Peptide of ompA Protein, a Major Outer membrane Protein of Escherichia coli", J. Biol. Chem. 255(1):27-29 (1980).	
	C240	Niman et al., PNAS (USA) 80:4949-4953 (1983).	
	C241	Ohtsuka et al., J. Biol. Chem. 260(5):2605-2608 (1985).	
	C242	Pollack et al., "Selective Chemical Catalysis by an Antibody", Science 234:1570-1573 (1986).	
	C243	Mullinax et al., Proc. Natl. Acad. Sci. USA, 87:8095-8099 (1990).	
	C244	Ward et al., Nature, 341:544-546 (1989).	
	C245	Caton et al., Proc. Natl. Acad. Sci. USA, 87:6450-6454 (1990).	

Examiner Signature	<i>J. KETTER</i>	Date Considered	5/1/03
-----------------------	------------------	--------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place mark here if English language Translation is attached.

Burden House Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and

Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant  
Commissioner for Patents, Washington, DC 20231.

